

### **Amendments to the Claims:**

1. (Currently Amended) A plant for generating active and reactive electric power for a high-voltage distribution or transmission network, comprising at least one of a gas and steam turbine coupled via a shaft means to at least one electric generator including at least one winding, ~~wherein the winding of at least one of the electrical generators comprises~~ comprising a conductor formed of a plurality of insulated strands and a lesser plurality of uninsulated strands, a solid insulation system including at least one of an inner semiconducting layer and outer semiconducting layer, each layer forming an equipotential surface, and a solid insulation.

2. (Previously Amended) The plant as claimed in claim 1, wherein the generator comprises a magnetic circuit with a magnetic core.

3. (Previously Amended) The plant as claimed in claim 2, wherein the flux paths in the core of the magnetic circuit comprise at least one of laminated sheet and cast iron and power-based iron and forged iron.

4. (Currently Amended) The plant as claimed in claim 1, wherein the winding comprises a high voltage cable including one or more of said current-carrying conductors surrounded by the solid insulation.

5. (Previously Amended) The plant as claimed in claim 4, wherein the inner semiconducting layer is surrounded by the solid insulation and is in electrical contact with a selected plurality of the conductors and is at substantially the same potential as said selected plurality of conductors.

6. (Previously Amended) The plant as claimed in claim 4, wherein the outer semiconducting layer forms an equipotential surface surrounding the conductor and solid insulation.

7. (Previously Amended) The plant as claimed in claim 6, wherein said outer semiconducting layer is connected to a selected potential.

8. (Previously Amended) The plant as claimed in claim 7, wherein the selected potential is earth potential.

9. (Previously Amended) The plant as claimed in claim 4, wherein at least one of said semiconducting layers form a monolithic structure with the solid insulation having substantially the same coefficient of thermal expansion.

10. (Cancelled)

11. (Previously Amended) The plant as claimed in claim 1, wherein the winding comprises a cable including one or more current carrying conductors, each conductor including a number of strands, said inner semiconductor layer being arranged around each conductor, the insulating layer of solid insulation being arranged around each inner semiconducting layer and the outer semiconducting layer being arranged around the insulating layer.

12. (Cancelled)

13. (Previously Amended) The plant as claimed in claim 1, wherein at least one electric generator is arranged to supply the out-going electric network directly without any intermediate connection of a step-up transformer (unit transformer).

14. (Previously Amended) The plant as claimed in claim 1, wherein at least one generator is arranged to supply an out-going network comprising at least 2 part-networks, at least one part-network being supplied via an intermediate system transformer.

15. (Previously Amended) The plant as claimed in claim 1, comprising several generators, each of which lacks an individual step-up transformer but which, via a system transformer common to the generators, is connected to the transmission or distribution network.

16. (Previously Amended) The plant as claimed in claim 1, wherein the windings of the stator in at least one generator are arranged for connection to more than one-voltage level.

17. (Previously Amended) The plant as claimed in claim 15, wherein one of said voltage levels relates to generation of auxiliary power, this being generated from a separate winding in the generator.

18. (Previously Amended) The plant as claimed in claim 1, wherein at least one generator is earthed via an impedance.

19. (Previously Amended) The plant as claimed in claim 1, wherein at least one generator is directly earthed.
20. (Previously Amended) The plant as claimed in claim 1, wherein the stator of the generator is cooled at earth potential by means of a flow of gas and/or liquids.
21. (Previously Amended) The plant as claimed in claim 1, wherein the cables intended for high voltage have a conductor area of between about 50 and 3000 mm<sup>2</sup> and have an outer diameter of between about 20 and 250 mm.
22. (Currently Amended) The plant as claimed in claim, wherein at least one winding of the stator ~~is carried out with~~ comprises a fractional slot winding.
23. (Currently Amended) The plant as claimed in claim 1, wherein at least one winding of the stator ~~is carried out with~~ comprises a fractional slot winding.
24. (Currently Amended) The plant as claimed in claim 1, wherein the rotor of at least one generator ~~is arranged for~~ comprises at least one of 2 and 4 poles.
25. (Previously Amended) The plant as claimed in claim 1, wherein the voltage level is controllable  $\pm 20\%$  of the rated voltage.
26. (Previously Amended) The plant as claimed in claim 1, wherein the winding of the generator is arranged for self-regulating field control free of auxiliary means for control of the field.
27. (Currently Amended) The plant as claimed in claim 1, wherein the stator of at least one generator is composed of axially combined, plate-shaped sections, preferably as whole sections in the peripheral direction.
28. (Previously Amended) The plant for generating active and reactive electric power for a high-voltage distribution or transmission network, including at least one electric generator which is coupled to at least one of gas and a steam turbine via a shaft means and including at least one winding, wherein the winding of at least one of the electric generators comprises a plurality of conductive insulated strands, and a lesser plurality of uninsulated strands and an insulation system in electrical contact with the uninsulated stands operable in excess of 36kV.

29. (Currently Amended) An electric generator arranged to be coupled to at least one of a gas and a steam turbine via a shaft means and comprising at least one winding, wherein the winding comprises a plurality of conductive insulated strands, and a lesser plurality of uninsulated strands, a solid insulation system including at least 2 semiconducting layers, each layer forming an equipotential surface, and an intermediate solid insulation, wherein at least one of the semiconducting layers forms a monolithic structure with the solid insulation having substantially the same coefficient of thermal expansion.

30. (Cancelled)

31. (Currently Amended) A procedure for manufacturing an electric generator as claimed in claim 29, wherein the stator is wound ~~at the plant site~~ in-situ where the generator is to be used.

32. (Currently Amended) The procedure as claimed in claim 31, wherein the stator is manufactured at the factory axially divided into a plurality of plate-shaped, separate sections, each section preferably being manufactured as a whole section in the peripheral direction.

33. (Previously Amended) A plant for generating active and reactive power of high-voltage distribution including at least one rotating high voltage electric machine comprising a stator; a rotor and a winding, wherein said winding comprises a cable including at least one current-carrying conductor including a plurality of insulated strands and at least one uninsulated strand and a magnetically permeable, electric field confining cover surrounding the conductor, said cable forming at least one uninterrupted turn in the corresponding winding of said machine.

34. (Previously Amended) The plant of claim 33, wherein the cover comprises an insulating layer surrounding the conductor and an outer layer surrounding the insulating layer, said outer layer having a conductivity for establishing an equipotential surface around the conductor.

35. (Original) The plant of claim 33, wherein the cover comprises an inner layer surrounding the conductor and being in electrical contact therewith; and insulating layer surrounding the inner layer and an outer layer surrounding the insulating layer.

36. (Original) The plant of claim 35, wherein the inner and outer layer have semiconducting properties.

37. (Previously Amended) The plant of claim 33, wherein the cover is formed of a plurality of layers including an insulating layer and wherein said plurality of layers form a monolithic structure being substantially void free.

38. (Previously Amended) The plant of claim 33, wherein the cover is in electric contact with the uninsulated strands of the conductor.

39. (Previously Amended) The plant of claim of 33, wherein the layers of the cover form a monolithic structure having substantially the same temperature coefficient of expansion.

40. (Previously Amended) The plant of claim 33, wherein the layers of the cover form a monolithic structure having substantially the same temperature coefficient of expansion such that the machine is operable at 100% overload for two hours.

41. (Previously Amended) The plant of claim 33, wherein the cover is operable to render the cable free of sensible end winding loss.

42. (Currently Amended) The plant of claim 33, wherein the cover is operable to render the cable ~~operable~~ free of partial discharge and field control.

43. (Original) The plant of claim 33, wherein the winding comprises multiple uninterrupted turns.

44. (Original) The plant of claim 33, where the cable is flexible.